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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/905,703	04/19/2001	Brian R. Dershem	P7926/00-868 7105	
7:	590 03/16/2005		EXAM	INER
Jason J. Stanley			ROSENBERG, LAURA B	
Caterpillar Inc., Intellectual Property Department AB6490			ART UNIT	PAPER NUMBER
100 N.E. Adams Street			3616	
Peoria, IL 61629-6490			DATE MAILED: 03/16/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Electricates of time may be available unifor the provision of 3 of ER 1.15(d), in no event, however, may a raply be timely filed Electricates of time may be available unifor the provision of 3 of ER 1.15(d), in no event, however, may a raply be timely filed Electricate of time may be available unifor the provision of 3 of ER 1.15(d), in no event, however, may a raply be timely filed I the period for raply sepcrified above is less but hirty (30) days, a raply within the statutory infoliumnum of this (20) MOVINTS from the mailing date of this communication. Fallure to raply within the set of extended parient for raply will, by attailute, cause this application to become ARANDOVIED (55 U.S. 6; 113). Responsive to communication(s) filed on 2 <u>Toecember 2004</u> . 2a)[2] This action is FINAL. 2b)[] This action is final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4)[] Claim(s) <u>15-31 and 33-36</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5][] Claim(s) is/are allowed. 6)[] Claim(s) is/are objected to. 8)[] Claim(s) is/are objected to. 9)[] The specification is objected to by the Examiner. 10)[] The drawing(s) filed on is/are: and accepted or bn objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.85(a). 11][] Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). 3)[] All b)[] Some * c][] Mosico of the priority documents have been received. 2.[] Certified copies of the priority documen			
Examiner Laura B Rosenberg 3616		Application No.	Applicant(s)
Laura B Rosenberg 3616 - The MALLING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MALLING DATE OF THIS COMMUNICATION. A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MALLING DATE OF THIS COMMUNICATION. If the period for reply specified shows is lists than thirty (30) days, an early within the adultury minimum of thirty (30) days will be considered timely. If the period for reply specified shows is lists than thirty (30) days, an early within the adultury minimum of thirty (30) days will be considered timely. If the period for reply specified shows is lists than thirty (30) days, an early within the adultury minimum of thirty (30) days will be considered timely. If the period for reply specified shows is lists than thirty (30) days, an early within the adultury minimum of thirty (30) days will be considered timely. If the period for reply specified days, the manimum statury period will apply and will apply the Monthly filled of the communication. Any reply reclaved by the Office later than there months after the malling date of this communication, even if timely filled, may reduce any seamed partner and equitary filled. Any reply reclaved by the Office later than there months after the malling date of this communication, even if timely filled, may reduce any seamed partner. Status I) Responsive to communication is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under Exparte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims A) Claim(s) 15-31 and 33-36 is/are pending in the application. 4) Claim(s) 15-31 and 33-36 is/are rejected. 7) Claim(s) 15-31 and 33-36 is/are rejected. 10) Claim(s) 15-31 and 33-36 is/are		09/905,703	DERSHEM ET AL.
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DETAILED ACTION

1. This office action is in response to the amendment filed on 27 December 2004, in which claims 15, 19, 25, and 30 were amended and claim 32 was canceled.

Claim Objections

Claim 19 is objected to because of the following informalities:"a" should be deleted in the phrase "a right and left track assemblies (line 2).Appropriate correction is required.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 15-20, 22-28, and 30-36 are rejected under 35 U.S.C. 102(b) as being anticipated by Shoup (4,151,920). In regards to claims 15, 25, 30, and 35, Shoup discloses a frame assembly (best seen in figure 1) for a loader machine having an undercarriage including at least one cross-member (including #60), the frame assembly comprising a main frame assembly (#10) having a base portion (including parts of #18) and front and rear sections (right side in figure 1 is front; left side in figure 1 is rear), and at least one recessed channel (#56) defined on the base portion of the main frame assembly and having a defined surface (including side surfaces of #56 in figure 2) and

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extending across the width of the base portion for seating the defined surface upon the at least one cross-member (best seen in figures 1, 2) in a manner that distributes a vertical load of the loader machine substantially evenly along the at least one cross-member (based on the channel's location across the entire width of the frame).

In regards to claims 16, 26, and 33, Shoup discloses the at least one crossmember (#60) is attached with the main frame assembly in an area adjacent the at least one recessed channel (best seen in figure 1).

In regards to claims 17, 27, 31, and 34, Shoup discloses the at least one recessed channel (#56) being positioned between the front and rear sections of the main frame assembly and extending across the entire width of the base portion (figure 1).

In regards to claims 18 and 28, Shoup discloses the main frame assembly including an upper frame assembly (including #14, 16) having a pair of "space tower assemblies" ("tallest" portions of #16), a pair of side members (#16) having front (to the right) and rear (to the left) portions with each side member being connected to a respective one of the pair of tower assemblies (integral with them) and extending longitudinally therefrom, and a cross-member assembly (#14) extending between the pair of tower assemblies for connection therewith, and a lower frame assembly (including #18) having a pair of spaced vertically oriented side rails (#18) and a front wall (including #78) extending continuously between the side rails for connection therewith, the upper frame assembly being mounted to the lower frame assembly

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exclusively at a connection between the side members of the upper frame assembly and rte respective side rails of the lower frame assembly (at weld joint #30).

In regards to claims 19 and 25, Shoup discloses the undercarriage being a tracked undercarriage including right and left tracked assemblies being connected by the at least one cross-member (column 3, lines 28-35).

In regards to claim 20, Shoup discloses the at least one recessed channel (#56), based on its location across the width of the frame and its connection to the side frame members, defining a strengthened region of the main frame assembly and being operable to provide torsional stiffness to the loader machine.

In regards to claim 22, Shoup discloses the lower frame assembly further including the base portion and the at least one recessed channel (figure 1).

In regards to claim 23, Shoup discloses the cross-member assembly (#14) being disposed between the front and rear end portions of the upper frame assembly (figure 1; front end portion to the right, rear end portion to the left).

In regards to claim 24, Shoup discloses the side members (#16) of the upper frame assembly extending along the side rails (#18) of the lower frame assembly a predetermined distance (along #30) and terminating rearward of the front wall (#78).

In regards to claim 32, to the best of the examiner's understanding, Shoup discloses the loader machine having a center of gravity that is measured in relation to the depth of the at least one recessed opening and the among of the at least one cross-member disposed within the at least one recessed opening. Specifically, the center of gravity can be measured with respect to any desired location of a vehicle.

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In regards to claim 36, Shoup discloses the at least one recessed opening (#56) and the at least one cross-member (#60) having a channel shape formed for mating relation with each other (best seen in figure 1).

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 21 and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shoup (4,151,920) in view of Macht (4,514,007). In regards to claims 21 and 29, Shoup does not disclose the material used for manufacturing the lower frame assembly. Macht teaches a frame assembly (best seen in figure 2) for a loader machine (#10) having an undercarriage including at least one cross-member (#74,76), the frame assembly comprising a main frame assembly (#12) and at least one recessed channel (not labeled; best seen in figure 2) for seating upon the at least one cross-member. The frame assembly is formed of steel (column 4, lines 2-4). It would have been obvious to one skilled in the art at the time that the invention was made to modify the lower frame assembly of Shoup such that it comprised a medium strength steel as claimed in view of the teachings of Macht so as to provide a strong, resilient, and inexpensive material for manufacturing the lower frame assembly. Further, it has been held to be within the

general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as matter of obvious design choice. *In re Leshin*, 125 USPQ 416.

Response to Arguments

7. Applicant's arguments filed 27 December 2004 have been fully considered but they are not persuasive. The recessed channel (#56) of the main frame assembly is seated upon the cross-member (#60) via the connection to the pivot joint (#58), as best seen in figure 2. Further, the phrase "for seating the defined surface upon said at least one crossmember" leads to the intended use of the apparatus and does not positively recite this feature of the claimed invention, thus this recitation does not differentiate the claimed apparatus from a prior art apparatus satisfying the claimed structural limitations.

Conclusion

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

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extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Laura B Rosenberg whose telephone number is (703)

305-3135. The examiner can normally be reached on Monday-Friday 7:00am-3:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Paul Dickson can be reached on (703) 308-2089. The fax phone number

for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Beginning April 7, 2005, Laura B Rosenberg can be reached at the new USPTO

location at (571) 272-6674, and Paul Dickson can be reached at (571) 272-6669.

aura B Rosenberg

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Patent Examiner

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LBR

PAUL N. DICKSON

SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 3600